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(54) Title: POLYPROPYLENE FIBRES SUITABLE FOR THERMALLY BONDED NON-WOVEN FABRICS

(57) Abstract: A fibre for thermal bonding comprising a propylene polymer composition having an MFR value from 4 to 50 g/10 min. The said composition is selected from (i) a crystalline propylene random copolymer or polymer composition containing at least 0.8% by weight of ethylene and optionally one or more C<sub>4</sub>-C<sub>10</sub> α-olefins and having a melting temperature of 155° C or higher, a content of fraction soluble in xylene at room temperature lower than 5 wt%, a value of the ratio of the polymer fraction collected at the temperature range from 25° to 95° C by TREF with xylene to the xylene soluble fraction, higher than 8; and (ii) a crystalline propylene polymer composition having a melting temperature of 153° C or higher, a content of fraction soluble in xylene at room temperature lower than 10 wt% and containing at least 0.64 wt% of ethylene and/or C<sub>4</sub>-C<sub>10</sub> α-olefin recurring unit and comprising (I) 20-80 wt% of a crystalline propylene homopolymer and/or crystalline propylene random copolymer containing up to 1.5% by weight of ethylene and/or C<sub>4</sub>-C<sub>10</sub> α-olefin and (II) 20-80 wt% of a crystalline random copolymer of propylene with ethylene or a C<sub>4</sub>-C<sub>10</sub> α-olefin. A polymer composition having an MFR value from 4 to 50 g/10 min, an ethylene content of at least 0.64 wt% and comprising (A) 20-80 wt% of a crystalline propylene homopolymer or crystalline propylene random copolymer containing up to 1.5 wt% of ethylene and/or C<sub>4</sub>-C<sub>10</sub> α-olefin and (B) 20-80 wt% of a crystalline random copolymer of propylene with higher than 5 to 9 wt% of ethylene. Non-woven fabrics that are prepared with the said fibres are useful for hygienic applications.

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